

INDUSTRIAL / COMMERCIAL

1. Machine Control

Use the GSM Commander to control machinery and notify you of any power failures.

a. Summary:

A factory has waste water that by law, must be treated before the water is dumped into the sewage system. The one process is a filtration system, and the second process involves the dosing of chemical solution into the water for the neutralization of harmful elements.

The ultrasonic level sensor, flow meter, backwash pump, solenoid valve and dosing pump are connected to the GSM Commander.

b. The GSM Commander can be configured to **monitor and control** the following:

- monitor flow meter
- automatically switch on backwash pump and solenoid as required
- automatically activate dosing pump as required
- monitor ultrasonic level sensor
- GSM Commander sends sms to you if chemical solution is running low
- GSM Commander sends sms to you detailing the volume effluent that was treated in the week
- GSM Commander sends sms to you if mains power fails

2. Staff Access Control

Use the GSM Commander to monitor and control access to a certain part of a building.

a. Summary:

A textile company wants to limit access to their financial department after hours by unauthorised staff members and wants to know how many times it has been accessed.

A door lock actuator, read switch and 12V battery back-up is connected to the GSM Commander.

b. The **GSM Commanders** can be configured to **monitor and control** the following:

- open door if missed call (drop) is received (only if cellphone number is in list)
- increment counter every time door is opened
- GSM Commander sends sms to you with total amount of times the door has been opened
- GSM Commander sends sms to you if door is opened after a specified time
- GSM Commander sends sms to you when mains power fails
- GSM Commander sends sms to you if battery voltage goes below 10.5V
- remove number of resigned staff member to prohibit access

3. Refrigeration / Cold storage

Use the GSM Commander to monitor the temperature and potential power failures of a cold room.

a. Summary:

Devine Foods, has a walk-in freezer which needs to be functional 24/7 to keep their raw food items fresh. The restaurant has experienced huge financial losses in the past due to power failures occurring in the middle of the night. They also want to be notified if the freezer door has been left open for too long.

A temperature probe, read switch. door lock actuator and 12V battery back-up is connected to the GSM Commander which is powered from the freezer's main power supply.

b. The **GSM Commanders** can be configured to **monitor and control** the following:

- missed call (drop) freezer to open door (allows for controlled access)
- monitor temperature inside the freezer
- send sms if temperature is outside specified boundaries
- sends sms when mains power fails
- GSM Commander sends sms to you if battery voltage goes below 10.5V
- GSM Commander sends sms to you if freezer has been left open for too long
- GSM Commander sends sms to you if freezer has been entered during specified times.

4. Business Access control

Use the GSM Commander to control and monitor access to your business.

a. Summary:

A business owner only wants certain employees to have access to his workplace

A door lock actuator and read switch at the main entrance are connected to the GSM Commander together with a 12V batter back-up.

b. The **GSM Commanders** can be configured to **monitor and control** the following:

- open door if missed call (drop) is received (only if cellphone number is in list)
- GSM Commander sends sms to you if door is opened after a specified time
- GSM Commander sends sms to you when mains power fails
- GSM Commander sends sms to you if battery voltage goes below 10.5V
- remove number of resigned staff member to prohibit access

5. Laboratory Power Management with backup generator

Use the GSM Commander to ensure that there is always power supplied to your equipment.

a. Summary:

A laboratory has 5 power generators as back-up in case of a mains power failure. They rely on these generators to keep their critical laboratory equipment functioning during a mains power failure.

5 generators and a 12V battery back-up is connected to the GSM Commander which is powered from a 220V mains power supply.

b. The **GSM Commanders** can be configured to **monitor and control** the following:

- GSM Commander sends sms to you when a power failure has occurred
- GSM Commander sends sms to you with global input(generator) status sms to you 15 seconds after a mains power failure
- GSM Commander sends sms to you if one of the generators switch off during a power failure
- GSM Commander sends sms to you when power has been restored
- GSM Commander sends sms to you when battery voltage goes below 10.5V